



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

May 2014

Sunnyvale, CA 94807

**Re: Indoor air sampling results for Residential Building #XX – Sunnyvale, CA
Intersil-Siemens Superfund Site**

Dear Resident:

Thank you for your cooperation and participation in EPA's and the San Francisco Regional Water Quality Control Board's ongoing indoor air investigations in Sunnyvale and Cupertino. As a follow-up to our telephone call, this letter confirms in writing the results of EPA's indoor air sampling, conducted at your home in July 2012 and February 2014.

The main chemical we are concerned about in this investigation – trichloroethene (TCE) – was not detected in the air in your home during the July 2012 or February 2014 sampling event. Based on these results, no further testing of your home is believed to be necessary.

Background: Two rounds of sampling were performed at your home in connection with the Intersil-Siemens Superfund Site, located at 10900-10950 North Tantau Avenue in Cupertino, with the goal of evaluating the potential migration of vapors released from the impacted groundwater into overlying buildings (a process called "vapor intrusion"). Please be aware that your drinking water is not affected by this contamination. Your water comes from municipal sources, not from groundwater in this area.

Your Indoor Air Test Results: TCE was not detected in the air in your home or in the crawlspace beneath your home during either of the two sampling events (please see the following chart for the results – Table 1). EPA interprets this result to mean that there is no evidence that vapor intrusion is occurring at your home or that there is an exposure from the site that could impact your health or the health of your family.

One other compound associated with the Site was detected (perchloroethene or PCE), but at very low concentrations (up to 0.096 micrograms per cubic meter or $\mu\text{g}/\text{m}^3$) that are not considered to be harmful and well below the screening level used by EPA.

PCE (and TCE) belongs to a chemical category called VOCs – volatile organic compounds – which are contained in products that may be commonly found around the home (such as silicone lubricants, spot removers, adhesives, wood cleaners and dry-cleaned clothing). Additionally, because PCE was not detected in the crawlspace of your home (or in the crawlspace samples from all of the other homes tested in the neighborhood), it is likely that the low levels of PCE detected in your home are due to an indoor source of the chemical.

Two other chemicals (toluene and chloroform) were detected at very low concentrations that are not considered harmful, and consistent with levels that were measured in local outdoor air. Regarding toluene, the levels detected were less than 1/1000 of the screening level used by EPA, and the chemical chloroform is a by-product of drinking water disinfection and commonly detected in the indoor air of households served by public water utilities.

TABLE 1 - SUMMARY OF TCE AIR TESTING RESULTS AT YOUR HOME

RB-XX – Sunnyvale, California

July 2012 and February 2014

All concentrations are presented in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)

Sample Location	TCE Concentration		PCE Concentration	
	July 2012	February 2014	July 2012	February 2014
Crawlspace Sample	Not detected	Not detected	Not detected	Not detected
Indoor Air Sample 1	Not detected	Not detected	Not detected	0.096
Indoor Air Sample 2	Not detected	Not detected	Not detected	0.093
Indoor Air Sample 3	--	Not detected	--	0.092
Outdoor Air Sample 1 (a neighbor's backyard)	Not detected	Not detected	Not detected	Not detected
Outdoor Air Sample 2 (a neighbor's backyard)	Not detected	Not detected	Not detected	Not detected
Comparison to Screening Levels				
Short-term Screening Level	2		42	
Long-term Screening Level	0.43		0.4	

Based on these results, no further testing of your home is believed to be necessary. If you have any questions, please contact me at (415) 972-3050 or by e-mail to morash.melanie@epa.gov. Thank you again for your cooperation and participation in this air sampling investigation.

Sincerely,

Melanie Morash
EPA Remedial Project Manager

cc: Roger Papler, SF Bay Regional Water Quality Control Board [roger.papler@waterboards.ca.gov]
Avery Whitmarsh, AMEC [avery.whitmarsh@amec.com]